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| <b>PTO 1449</b><br><b>INFORMATION DISCLOSURE</b><br><b>STATEMENT BY APPLICANT</b> | Attorney Docket No.<br>5634.197                   | Serial No.<br>08/477,805 |
|   | Applicants<br>John C. Harvey and James W. Cuddihy |                          |
| <b>Title: Signal Processing Apparatus and Method</b>                              | Filing Date:<br>June 7, 1995                      | Group:<br>2602           |


**U.S. Patent Documents**

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE    | NAME            | CLASS/ SUBCLASS | FILING DATE* |
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|                  | 2,511,085     | June 13, 1950  | Smith           | 179/1           |              |
|                  | 2,573,349     | Oct. 30, 1951  | Miller et al.   | 177/353         |              |
|                  | 2,769,023     | Oct. 30, 1956  | Loew et al.     | 178/5.1         |              |
|                  | 2,788,387     | Apr. 9, 1957   | Druz            | 178/5.1         |              |
|                  | 2,864,885     | Dec. 16, 1958  | Morris          | 178/5.1         |              |
|                  | 2,866,962     | Dec. 30, 1958  | Ellet           | 340/147         |              |
|                  | 3,016,091     | Jan. 9, 1962   | Danielle        | 162/391         |              |
|                  | 3,071,642     | Jan. 1, 1963   | Mountjoy et al. | 178/5.1         |              |
|                  | 3,213,201     | Oct. 19, 1965  | Flood et al.    | 179/15          |              |
|                  | 3,238,297     | Mar. 1, 1966   | Pawley et al.   | 178/22          |              |
|                  | 3,363,250     | Jan. 9, 1968   | Jacobson        | 343/225         |              |
|                  | 3,493,674     | Feb., 1970     | Houghton        | 178/5.6         |              |
|                  | 3,531,586     | Sept. 29, 1970 | Bass et al.     | 178/6           |              |
|                  | 3,536,833     | Oct. 27, 1970  | Guanella        | 178/22          |              |
|                  | 3,569,937     | Mar. 9, 1971   | Hoetter         | 340/171         |              |
|                  | 3,573,747     | Apr. 6, 1971   | Adams et al.    | 340/172.5       |              |
|                  | 3,584,142     | June 8, 1971   | Schoeffler      | 178/6.8         |              |
|                  | 3,601,528     | Aug. 24, 1971  | McVoy           | 178/5.1         |              |
|                  | 3,609,697     | Sept. 28, 1971 | Blevins et al.  | 340/172.5       |              |
|                  | 3,657,699     | Apr. 18, 1972  | Rocher et al.   | 340/146.1       |              |

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|  | Applicants<br>John C. Harvey and James W. Cuddihy |                          |
|  | Filing Date:<br>June 7, 1995                      | Group:<br>2602           |
| <b>Title: Signal Processing Apparatus<br/>and Method</b> |   |                          |

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|                     | 3,659,046        | Apr. 25, 1972  | Angeleri et al. | 178/22             |                 |
|                     | 3,668,307        | June 6, 1972   | Face et al.     | 178/5.6            |                 |
|                     | 3,684,823        | Aug. 15, 1972  | McVoy           | 178/5.1            |                 |
|                     | 3,693,090        | Sept. 19, 1972 | Gabriel         | 325/308            |                 |
|                     | 3,703,684        | Nov. 21 1972   | McVoy           | 325/31             |                 |
|                     | 3,725,672        | Apr. 3, 1973   | Reuter          | 307/208            |                 |
|                     | 3,729,581        | Apr. 24, 1973  | Anderson        | 178/6.8            |                 |
|                     | 3,731,197        | May 1, 1973    | Clark           | 325/32             |                 |
|                     | 3,733,430        | May 15, 1973   | Thompson et al. | 178/5.1            |                 |
|                     | 3,736,369        | May 29, 1973   | Vogelman et al. | 178/5.1            |                 |
|                     | 3,749,845        | July 31, 1973  | Fraser          | 179/15             |                 |
|                     | 3,752,908        | Aug. 14, 1973  | Boenke et al.   | 178/5.6            |                 |
|                     | 3,757,225        | Sep. 4, 1973   | Ukicki          | 325/308            |                 |
|                     | 3,773,977        | Nov. 20, 1973  | Guanella        | 179/1.5            |                 |
|                     | 3,777,053        | Dec. 4, 1973   | Wittig et al.   | 178/5.1            |                 |
|                     | 3,789,137        | Jan. 29, 1974  | Newell          | 178/6.6            |                 |
|                     | 3,790,700        | Feb. 5, 1974   | Callais et al.  | 178/5.1            |                 |
|                     | 3,798,359        | Mar. 19, 1974  | Feistel         | 178/22             |                 |
|                     | 3,798,610        | Mar. 19, 1974  | Bliss et al.    | 340/172.5          |                 |
|                     | 3,803,491        | Apr. 9, 1974   | Osborn          | 325/53             |                 |

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | Attorney Docket No.<br>5634.197                   | Serial No.<br>08477805 |
|  | Applicants<br>John C. Harvey and James W. Cuddihy |                        |
|  | Filing Date:<br>June 7, 1995                      | Group:<br>2602         |
| <b>Title: Signal Processing Apparatus and Method</b>     |   |                        |

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|------------------|---------------|---------------|------------------|-----------------|--------------|
|                  | 3,806,814     | Apr. 23, 1974 | Forbes           | 325/309         |              |
|                  | 3,819,852     | June 25, 1974 | Wolf             | 178/5.6         |              |
|                  | 3,824,332     | July 16, 1974 | Horowitz         | 178/5.1         |              |
|                  | 3,824,467     | July 16, 1974 | French           | 325/32          |              |
|                  | 3,825,893     | July 23, 1974 | Bossen et al.    | 340/146.1       |              |
|                  | 3,833,757     | Sept. 3, 1974 | Kirk, Jr. et al. | 178/5.6         |              |
|                  | 3,835,387     | Sep. 10, 1974 | Rookes et al.    | 325/55          |              |
|                  | 3,842,196     | Oct. 15, 1974 | Louglin          | 358/12          |              |
|                  | 3,845,391     | Oct. 29, 1974 | Crosby           | 325/64          |              |
|                  | 3,848,193     | Nov. 12, 1974 | Martin et al.    | 325/53          |              |
|                  | 3,882,392     | May 6, 1975   | Harney           | 325/53          |              |
|                  | 3,885,089     | May 20, 1975  | Callais et al.   | 178/5.1         |              |
|                  | 3,886,302     | May 27, 1975  | Kosco            | 178/5.1         |              |
|                  | 3,886,454     | May 27, 1975  | Oakley et al.    | 325/52          |              |
|                  | 3,890,461     | June 17, 1975 | Vogelman et al.  | 178/5.1         |              |
|                  | 3,891,792     | June 24, 1975 | Kimura           | 178/5.8R        |              |
|                  | 3,893,031     | July 1, 1975  | Majeau et al.    | 325/32          |              |
|                  | 3,894,176     | July 8, 1975  | Mellon           | 178/5.1         |              |
|                  | 3,899,633     | Aug. 12, 1975 | Sorenson et al.  | 178/5.1         |              |
|                  | 3,911,216     | Oct. 7, 1975  | Bartek et al.    | 178/22          |              |
|                  | 3,914,534     | Oct. 21, 1975 | Forbes           | 178/5.1         |              |

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|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
|                     | 3,916,091        | Oct. 28, 1975  | Kirk, Jr. et al.   | 178/5.1            |                 |
|                     | 3,919,462        | Nov. 11, 1975  | Hartung et al.     | 178/5.1            |                 |
|                     | 3,921,151        | Nov. 18, 1975  | Guanella           | 340/172.5          |                 |
|                     | 3,924,187        | Dec. 2, 1975   | Dormans            | 325/52             |                 |
|                     | 3,934,079        | Jan. 20, 1976  | Barnhart           | 178/5.1            |                 |
|                     | 3,936,593        | Feb. 3, 1976   | Aaronson et al.    | 178/5.1            |                 |
|                     | 3,936,594        | Feb. 3, 1976   | Schubin et al.     | 178/5.1            |                 |
|                     | 3,936,595        | Feb. 3, 1976   | Yanagimachi et al. | 178/5.6            |                 |
|                     | 3,943,447        | Mar. 9, 1976   | Shomo, III         | 325/308            |                 |
|                     | 3,947,882        | Mar. 30, 1976  | Lightner           | 360/92             |                 |
|                     | 3,949,313        | Apr. 6 1976    | Tamada et al.      | 329/106            |                 |
|                     | 3,956,615        | May 11, 1976   | Anderson et al.    | 235/61.7B          |                 |
|                     | 3,970,790        | July 20, 1976  | Guanella           | 179/1.5S           |                 |
|                     | 3,975,583        | Aug. 17, 1976  | Meadows            | 175/5.6            |                 |
|                     | 3,978,449        | Aug. 31, 1976  | Sanders et al.     | 340/146.1          |                 |
|                     | 3,987,398        | Oct. 19, 1976  | Fung               | 325/309            |                 |
|                     | 3,988,528        | Oct. 26, 1976  | Yanagimachi et al. | 178/5.6            |                 |
|                     | 3,997,718        | Dec. 14, 1976  | Ricketts et al.    | 178/6.8            |                 |
|                     | 4,024,574        | May 17, 1977   | Nieson             | 358/117            |                 |
|                     | 4,025,851        | May 24, 1977   | Hazelwood et al.   | 325/31             |                 |
|                     | 4,025,947        | May 24, 1977   | Michael            | 358/86             |                 |

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|------------------|---------------|----------------|--------------------|-----------------|--------------|
|                  | 4,025,948     | May 24, 1977   | Loshin             | 358/122         |              |
|                  | 4,031,548     | June 21, 1977  | Kato et al.        | 358/188         |              |
|                  | 4,048,619     | Sept. 13, 1977 | Forman, Jr. et al. | 340/154         |              |
|                  | 4,049,906     | Sept. 20, 1977 | Hafner et al.      | 178/2C          |              |
|                  | 4,054,911     | Oct. 18, 1977  | Fletcher et al.    | 358/141         |              |
|                  | 4,058,830     | Nov. 15, 1977  | Gulnet et al.      | 358/86          |              |
|                  | 4,068,264     | Jan. 10, 1978  | Pires              | 358/122         |              |
|                  | 4,079,419     | Mar. 14, 1978  | Siegle et al.      | 358/193         |              |
|                  | 4,081,612     | Mar. 28, 1978  | Hafner             | 179/15BA        |              |
|                  | 4,081,753     | Mar. 28, 1978  | Miller             | 325/396         |              |
|                  | 4,081,831     | Mar. 28, 1978  | Tang et al.        | 358/114         |              |
|                  | 4,091,417     | May 23, 1978   | Nieson             | 358/117         |              |
|                  | 4,104,486     | Aug. 1, 1978   | Martin et al.      | 179/2           |              |
|                  | 4,107,735     | Aug. 15, 1978  | Frohbach           | 358/84          |              |
|                  | 4,112,464     | Sept. 5, 1978  | Gulf et al.        | 358/122         |              |
|                  | 4,115,662     | Sept. 19, 1978 | Gulnet et al.      | 179/15BV        |              |
|                  | 4,115,807     | Sept 19, 1978  | Pires              | 358/122         |              |
|                  | 4,120,030     | Oct. 10, 1978  | Johnstine          | 364/200         |              |
|                  | 4,130,833     | Dec. 19, 1978  | Choenet            | 358/122         |              |
|                  | 4,131,881     | Dec. 26, 1978  | Robinson           | 340/167R        |              |
|                  | 4,138,726     | Feb. 6, 1979   | Girault et al.     | 364/521         |              |

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|---------------------|------------------|----------------|-----------------|--------------------|-----------------|
|                     | 4,160,120        | July 3, 1979   | Barnes et al.   | 178/22             |                 |
|                     | 4,161,751        | July 17, 1979  | Ost             | 358/114            |                 |
|                     | 4,163,254        | July 31, 1979  | Block et al.    | 358/122            |                 |
|                     | 4,163,255        | July 31, 1979  | Pires           | 358/122            |                 |
|                     | 4,168,396        | Sept. 18, 1979 | Best            | 178/22             |                 |
|                     | 4,170,782        | Oct. 9, 1979   | Miller          | 358/84             |                 |
|                     | 4,171,513        | Oct. 16, 1979  | Otey et al.     | 325/32             |                 |
|                     | 4,172,213        | Oct. 23, 1979  | Barnes et al.   | 178/22             |                 |
|                     | 4,186,413        | Jan. 29, 1980  | Mortimer        | 358/146            |                 |
|                     | 4,196,310        | Apr. 1, 1980   | Forman et al.   | 178/22             |                 |
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|                     | 4,200,913        | Apr. 29, 1980  | Kuhar et al.    | 364/900            |                 |
|                     | 4,205,343        | May 27, 1980   | Barrett         | 358/147            |                 |
|                     | 4,213,124        | July 15, 1980  | Barda et al.    | 340/706            |                 |
|                     | 4,215,366        | July 29, 1980  | Davidson        | 358/124            |                 |
|                     | 4,215,370        | July 29, 1980  | Kirk, Jr.       | 358/146            |                 |
|                     | 4,225,884        | Sept. 30, 1980 | Block et al.    | 358/122            |                 |
|                     | 4,225,967        | Sep. 30, 1980  | Miwa et al.     | 455/68             |                 |
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|                     | 4,232,193        | Nov. 4, 1980   | Gerard          | 179/1.5R           |                 |
|                     | 4,236,217        | Nov. 25, 1980  | Kennedy         | 364/483            |                 |

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|------------------|---------------|----------------|------------------|-----------------|---------------|
|                  | 4,237,484     | Dec. 2, 1980   | Brown et al.     | 358/142         |               |
|                  | 4,245,245     | Jan. 13, 1981  | Matsumoto et al. | 358/122         |               |
|                  | 4,247,106     | Jan. 27, 1981  | Jeffers et al.   | 273/85G         |               |
|                  | 4,250,524     | Feb. 10, 1981  | Tomizawa         | 358/122         |               |
|                  | 4,253,114     | Feb. 24, 1981  | Tang et al.      | 358/114         |               |
|                  | 4,253,157     | Feb. 24, 1981  | Kirschner et al. | 364/900         |               |
|                  | 4,262,329     | Apr. 14, 1981  | Bright et al.    | 364/200         |               |
|                  | 4,264,924     | Apr. 28, 1981  | Freeman          | 358/86          |               |
|                  | 4,264,925     | Apr. 28, 1981  | Freeman et al.   | 358/86          |               |
|                  | 4,266,243     | May 5, 1981    | Shutterly        | 358/121         |               |
|                  | 4,275,411     | June 23, 1981  | Lippel           | 358/13          |               |
|                  | 4,283,602     | Aug. 11, 1981  | Adams et al.     | 179/1.5R        |               |
|                  | 4,284,976     | Aug. 18, 1981  | Gable et al.     | 340/147         |               |
|                  | 4,286,281     | Aug. 25 1981   | Suzuki           | 358/4           |               |
|                  | 4,287,592     | Sept. 1, 1981  | Paulish et al.   | 370/88          |               |
|                  | 4,288,809     | Sept. 8, 1981  | Yabe             | 358/12          |               |
|                  | 4,290,141     | Sept. 15, 1981 | Anderson et al.  | 455/2           |               |
|                  | 4,290,142     | Sept. 15, 1981 | Schnee et al.    | 455/3           |               |
|                  | 4,292,650     | Sept. 29, 1981 | Henderickson     | 358/173         |               |
|                  | 4,295,223     | Oct. 13, 1981  | Shutterly        | 455/72          |               |
|                  | 4,302,771     | Nov. 24, 1981  | Gargini          | 358/86          | July 23, 1980 |

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|------------------|---------------|---------------|--------------------|-----------------|---------------|
|                  | 4,304,990     | Dec. 8, 1981  | Atalla             | 235/380         | Feb. 4, 1980  |
|                  | 4,305,101     | Dec. 8, 1981  | Yarbrough et al.   | 360/69          | Apr. 16, 1979 |
|                  | 4,305,131     | Dec. 8, 1981  | Best               | 364/521         |               |
|                  | 4,305,131     | Dec. 8, 1981  | Best               | 364/521         | Mar. 31, 1980 |
|                  | 4,306,289     | Dec. 15, 1981 | Lumley             | 364/200         | Feb. 4, 1980  |
|                  | 4,306,305     | Dec. 15, 1981 | Doi et al.         | 371/38          | Oct. 19, 1979 |
|                  | 4,307,446     | Dec. 22, 1981 | Barton et al.      | 364/200         | May 2, 1979   |
|                  | 4,310,854     | Jan. 12, 1982 | Baer               | 358/143         | Aug. 29, 1979 |
|                  | 4,312,016     | Jan. 19, 1982 | Glaab et al.       | 358/188         | Feb. 2, 1979  |
|                  | 4,313,132     | Jan. 26, 1982 | Doles et al.       | 358/114         | Oct. 31, 1979 |
|                  | 4,314,367     | Feb. 2, 1982  | Bakka et al.       | 370/60          | Jan. 17, 1980 |
|                  | 4,316,055     | Feb. 16, 1982 | Feistel            | 178/22.06       | Dec. 30, 1976 |
|                  | 4,316,245     | Feb. 16, 1982 | Luu et al.         | 364/200         | Dec. 7, 1978  |
|                  | 4,318,125     | Mar. 2, 1982  | Shutterly          | 358/121         | Apr. 25, 1979 |
|                  | 4,319,079     | Mar. 9, 1982  | Best               | 178/22.09       | Jan. 17, 1980 |
|                  | 4,322,745     | Mar. 30, 1982 | Saeki et al.       | 358/123         | Mar. 21, 1980 |
|                  | 4,323,921     | Apr. 6, 1982  | Guillou            | 358/114         | Jan. 23, 1980 |
|                  | 4,323,922     | Apr. 6, 1982  | den Toonder et al. | 358/117         | Dec. 17, 1979 |
|                  | 4,325,078     | Apr. 13, 1982 | Seatom et al.      | 358/117         | Nov. 20, 1979 |
|                  | 4,329,675     | May 11, 1982  | Van Hulle          | 358/86          | Sep. 23, 1980 |
|                  | 4,329,684     | May 11, 1982  | Monteath et al.    | 340/707         | Jan. 15, 1980 |

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\* - If pertinent

\*\*\* - Claims priority from parent application filed prior to Nov. 3, 1981

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | Attorney Docket No.<br>5634.197                   | Serial No.<br>08/477,805 |
|  | Applicants<br>John C. Harvey and James W. Cuddihy |                          |
|  | Filing Date:<br>June 7, 1995                      | Group:<br>2602           |
| <b>Title: Signal Processing Apparatus and Method</b>     |   |                          |

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